

AMENDED ABSTRACT SHOWING THE AMENDMENTS

The system can be used for the automatic analysis of images [(I)], [comprising] including a matrix of spots, such as images of DNA microarrays after hybridisation. The system can be associated - and preferably integrated in a single monolithic component implementing VLSI CMOS technology - to a sensor [(10)] for acquiring [said] the images [(I)]. The system [comprises] includes a circuit [(20)] for processing the signals corresponding to the images [(I)], configured according to a cellular neural network (CNN) architecture for the parallel analogue processing of signals.

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